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IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

- 1. 26. (Canceled)
- 27. (Currently amended) The method of claim 25 A method of providing a twoway voice path between a VoIP device in a network and a mobile station wherein a call originates at the VoIP device, the method comprising:

processing a call connection request at a VoIP call-server; initiating mobile call set-up at a Network Server Platform (NSP), wherein said step of initiating mobile call set-up comprises:

verifying the called party as a valid mobile station; sending a message to page the mobile station via the SRP; receiving page response from the mobile station; and instructing the VoIP call-server to forward the call connection request to the SRP;

tuning the mobile station to a digital traffic channel (DTC) to establish a voice path over the air via a Software Radio Port (SRP);

alerting both the mobile station and the VoIP device;

establishing an RTP media path for exchange of RTP data packets via the SRP; and

interconnecting the voice path over the air and the RTP path over the packet network via the SRP.

- 28. 37. (Canceled)
- 38. (Currently amended) The method of claim 34 A method of providing a twoway voice path between a first mobile station and a second mobile station wherein the first mobile station is associated with a first Software Radio Port

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(SRP) and the second mobile station is associated with a second SRP and wherein a call originates at the first mobile station, the method comprising: initiating call set-up for the first mobile station at the first SRP; tuning the first mobile station to a digital traffic channel (DTC) via the first SRP to establish a voice path over the air.

engaging a VoIP call-server to set up a VoIP call via the first SRP; initiating mobile call set-up for the second mobile station via a Network Server Platform (NSP), wherein said step of initiating mobile call set-up for the second mobile station via a Network Server Platform comprises:

verifying the called number as a valid mobile station; sending a message to page the second mobile station via the second SRP:

receiving a page response from the second mobile station; and instructing the VoIP call-server to forward the call connection request to the second SRP;

tuning the second mobile station to a digital traffic channel (DTC) via the second SRP to establish a voice path over the air;

alerting the first mobile station and the second mobile station via the second SRP;

generating a ringback tone to the first mobile station via the first SRP: establishing an RTP media path for exchange of RTP data packets; interconnecting a voice path between the first SRP and the first mobile station and an RTP path over the packet network; and

interconnecting a voice path between the second SRP and second mobile station and an RTP path over the packet network.

39. (Currently amended) The method of claim 34 A method of providing a twoway voice path between a first mobile station and a second mobile station wherein the first mobile station is associated with a first Software Radio Port (SRP) and the second mobile station is associated with a second SRP and wherein a call originates at the first mobile station, the method comprising:

initiating call set-up for the first mobile station at the first SRP; tuning the first mobile station to a digital traffic channel (DTC) via the first SRP to establish a voice path over the air;

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engaging a VoIP call-server to set up a VoIP call via the first SRP; initiating mobile call set-up for the second mobile station via a Network Server Platform (NSP);

tuning the second mobile station to a digital traffic channel (DTC) via the second SRP to establish a voice path over the air, wherein said step of tuning the second mobile station to a digital traffic channel (DTC) via the second SRP comprises:

sending a message to tune the second mobile station to a specified digital traffic channel; and

detecting the second mobile station as being tuned to the specified digital traffic channel;

alerting the first mobile station and the second mobile station via the second SRP;

generating a ringback tone to the first mobile station via the first SRP; establishing an RTP media path for exchange of RTP data packets; interconnecting a voice path between the first SRP and the first mobile station and an RTP path over the packet network; and

interconnecting a voice path between the second SRP and second mobile station and an RTP path over the packet network.

40. - 41. (Canceled)

42. (Currently amended) The method of claim 34 A method of providing a twoway voice path between a first mobile station and a second mobile station wherein the first mobile station is associated with a first Software Radio Port (SRP) and the second mobile station is associated with a second SRP and wherein a call originates at the first mobile station, the method comprising: initiating call set-up for the first mobile station at the first SRP;

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tuning the first mobile station to a digital traffic channel (DTC) via the first SRP to establish a voice path over the air;

engaging a VoIP call-server to set up a VoIP call via the first SRP; initiating mobile call set-up for the second mobile station via a Network Server Platform (NSP);

tuning the second mobile station to a digital traffic channel (DTC) via the second SRP to establish a voice path over the air;

alerting the first mobile station and the second mobile station via the second SRP;

generating a ringback tone to the first mobile station via the first SRP; establishing an RTP media path for exchange of RTP data packets. wherein said step of establishing an RTP media path for exchange of RTP data packets comprises:

receiving a connect indication at the second SRP from the second mobile station;

sending a connect indication from the second SRP to the VoIP callserver;

receiving a connect indication at the first SRP from the VoIP callserver:

sending back an acknowledge message from the first SRP; turning off the ringback tone;

setting up the RTP media path for exchange of RTP data packets;

and

informing the NSP of the call connection;

interconnecting a voice path between the first SRP and the first mobile station and an RTP path over the packet network; and

interconnecting a voice path between the second SRP and second mobile station and an RTP path over the packet network.

43. (Canceled)

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44. (Currently amended) The method of claim 34 A method of providing a twoway voice path between a first mobile station and a second mobile station wherein the first mobile station is associated with a first Software Radio Port (SRP) and the second mobile station is associated with a second SRP and wherein a call originates at the first mobile station, the method comprising:

initiating call set-up for the first mobile station at the first SRP;

tuning the first mobile station to a digital traffic channel (DTC) via the first SRP to establish a voice path over the air;

engaging a VoIP call-server to set up a VoIP call via the first SRP; initiating mobile call set-up for the second mobile station via a Network Server Platform (NSP);

tuning the second mobile station to a digital traffic channel (DTC) via the second SRP to establish a voice path over the air;

alerting the first mobile station and the second mobile station via the second SRP;

generating a ringback tone to the first mobile station via the first SRP: establishing an RTP media path for exchange of RTP data packets; interconnecting a voice path between the first SRP and the first mobile station and an RTP path over the packet network; and

interconnecting a voice path between the second SRP and second mobile station and an RTP path over the packet network, wherein said step of interconnecting a voice path between the second SRP and second mobile station and an RTP path over the packet network comprises:

converting received voice frames from the second mobile station to RTP packets to be sent to the packet network; and

converting received RTP packets to voice frames to be sent to the second mobile station.

45. (Canceled)

46. (Canceled)

47. (Original) A method for terminating a call between a first mobile station and a second mobile station, said first mobile station associated with a first Software Radio Port (SRP) and said second mobile station associated with a second SRP, the method comprising:

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receiving a release indication at the first SRP from the first mobile station; releasing radio resources and an RTP media path at the first SRP; sending a call release request from the first SRP to a VoIP call-server; sending a call release indication from the first SRP to a Network Server Platform (NSP);

receiving a release indication at the second SRP from the VolP callserver;

sending a call release request from the second SRP to the second mobile station:

releasing radio resources and an RTP media path at the second SRP; and sending a call release indication from the second SRP to NSP.

48. (Original) A method for maintaining an RTP media path during handoff of a mobile station from a first Software Radio Port (SRP) to a second Software Radio Port (SRP) wherein the mobile station is connected with a party, the method comprising:

sending a handoff request from the first SRP to a Network Server Platform (NSP);

handing off the mobile station from the first SRP to the second SRP via the NSP:

sending a call transfer request from the first SRP to the NSP; releasing radio resources at the first SRP;

detecting at the second SRP the mobile station as being tuned to a digital traffic channel and sending a conference call request to the party via a VoIP callserver;

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setting up an RTP media path for exchange of RTP data packets via the second SRP when the conference call has been established;

interconnecting the voice path between the second SRP and the mobile station and the RTP path;

sending a handoff complete indication from the second SRP to the NSP; sending a call release request from the first SRP to the party via the VoIP call-server;

releasing the RTP media path at the first SRP; and sending call release indication from the first SRP to the NSP.